Amendments to the Specification:

Please replace paragraphs [023], [024], [025], [026], [027], and [028] with the following paragraphs:

[023] Figure 1 ~~depicts a behavioral profile of stroke animals. Stroke animals treated with intra-arterial HUCB cells plus mannitol displayed significantly reduced motor asymmetry in the elevated body swing test at 3 days post stroke in comparison to animals treated with controls (HUCB alone or intra arterial (IA) vehicle alone)~~ depicts graphical representations of the electrocardiogram of left ventricle fractional shortening for three experimental groups. Group 1 are control rats with no intervention, Group 2 are rats with induced arterial wall ventricle infarction, and Group 3 rats are induced arterial wall ventricle infarction and treated with an umbilical cord blood cell composition.

[024] Figure 2 ~~depicts a behavioral profile of stroke animals. Stroke animals treated with IA HUCB cells plus mannitol displayed decreased acquisition time on passive avoidance testing at 3 days post-stroke in comparison to animals treated with controls.~~ depicts graphical representations of the left ventricle size for three experimental groups. Group 1 are control rats with no intervention, Group 2 are rats with induced arterial wall ventricle infarction, and Group 3 rats are induced arterial wall ventricle infarction and treated with an umbilical cord blood cell composition.

[025] Figure 3 ~~depicts a behavioral profile of stroke animals. Stroke animals treated with IA HUCB cells plus mannitol displayed increased retention time on passive avoidance testing at 3 days post stroke in comparison to animals treated with controls.~~ heart tissue of the present invention. (A) An image of normal heart tissue after one month. (B) An image showing the typical appearance of heart with fluorescent umbilical cord blood cell composition at one month after induced infarction. (C) An image showing the typical appearance of heart with fluorescent umbilical cord blood cell composition at four months after induced infarction.

[026] Figure 4 ~~depicts an analysis of infarct volume. IA HUCB cell grafts + mannitol significantly reduced the size of cerebral infarction compared to controls. However, pretransplant~~

~~exposure of HUCB cells to the neurotrophic factor antibody cocktail treatment, blocked the neuroprotective effects of HUCB cell grafts + mannitol.~~ depicts horizontal heart slices through the left and right ventricles of rats in (A) Group 2 and (B) Group 3, showing the wall thickness of the left ventricle.

[027] Figure ~~5 shows an analysis of neurotrophic factors in the brains of stroke animals that were not treated with HUCB cells. No significant elevations in the brain levels of neurotrophic factors were observed in animals that were treated with HUCB cells that had been previously treated with antibodies to neurotrophic factors.~~ 5 depicts a representative trichorome staining of the heart following infacrtion.

[028] Figure 6 ~~shows an analysis of neurotrophic factors. ELISA revealed that IA HTJCB plus mannitol increased GDNF brain levels at 3 days post stroke. These increases were blocked when the HUCB cells were treated with neurotrophic factor antibody.~~ depicts a graphical representation of a standard curve for human umbilical cord blood cells during cell migration assay.